

Claims

[c1] 1. A sealing arrangement comprising:
a sealing strip made of a substantially incompressible
material, for sealing between a first and a second com-
ponent part which have been joined together, wherein
the sealing strip is adapted to be inserted into a groove
present on the first component part, and the sealing
strip exhibits a substantially constant width along the
main portion of its length and at least one protrusion on
the sealing strip, wherein the sealing strip is intended to
be pinched into said groove at this portion; and
said at least one protrusion exhibits a recess which is in-
tended to be at least partially compressed by said pinch-
ing.

[c2] 2. The sealing arrangement as recited in claim 1, further
comprising:
said recess is designed as a lead-through.

[c3] 3. The sealing arrangement as recited in claim 2, further
comprising:
said sealing strip exhibits a lower delimitation surface
intended to abut against a bottom surface formed in said
groove, and an upper delimitation surface intended to

abut against said second component part; and the lead-through extends through the protrusion in a direction between said upper delimitation surface and lower delimitation surface.

- [c4] 4. The sealing arrangement as recited in claim 1, further comprising:
said protrusion exhibits an upper delimitation surface and a lower delimitation surface and a projection of the upper and lower delimitation surfaces of the protrusion in parallel with the width of the sealing strip are located between the upper and lower delimitation surfaces of the sealing strip.
- [c5] 5. The sealing arrangement as recited in claim 4, further comprising:
said protrusion exhibits an extension in height-direction which is smaller than the extension in height-direction of the sealing strip.
- [c6] 6. The sealing arrangement as recited in claim 1, further comprising:
said upper delimitation surface of the sealing strip, the lower delimitation surface, and portions of a side surface of the sealing strip where the protrusion is arranged, are designed with the surface perpendiculars of these surfaces in a continuous direction, whereas the direction of

the surface perpendicular of an outer side surface of the protrusion facing away from the sealing strip changes direction so that the scalar product between the surface perpendicular of this outer side surface and a vector along the longitudinal direction of the sealing strip in this portion shifts sign on both sides of the recess in the longitudinal direction of the sealing strip.

- [c7] 7. The sealing arrangement as recited in claim 1, further comprising:
said protrusion exhibits an outer side surface facing away from the sealing strip, and an inner side surface facing towards the sealing strip, that the inner side surface is curved and exhibits a maximum radius of curvature R_i , and that the outer side surface is curved and exhibits a maximum radius of curvature R_y , wherein the maximum radius of curvature of the outer side surface is larger than the maximum radius of curvature of the inner side surface.
- [c8] 8. The sealing arrangement as recited in claim 1, further comprising:
said sealing strip is designed as an endless strip.
- [c9] 9. The sealing arrangement as recited in claim 1, further comprising:
said sealing strip is designed with a longitudinal direc-

tion which varies in three dimensions.

- [c10] 10. A component comprising a first component part and a second component part, and a sealing strip which is designed to be inserted into a groove being present on the first component part, wherein the sealing strip exhibits a substantially constant width along the main portion of its length, and the sealing strip at this portion is intended to be pinched into said groove, and said at least one protrusion exhibits a recess which is intended to be at least partially compressed by said pinching.
- [c11] 11. The component as recited in claim 10, further comprising:
said recess is designed as a lead-through.
- [c12] 12. The component as recited in claim 10, further comprising:
said sealing strip exhibits a lower delimitation surface intended to abut against a bottom surface formed in the groove, and an upper delimitation surface intended to abut against said second component part; and
the lead-through extends between said upper delimitation surface and lower delimitation surface.
- [c13] 13. The component as recited in claim 10, further comprising:

said protrusion exhibits an upper delimitation surface and a lower delimitation surface; and a projection of the upper and lower delimitation surfaces of the protrusion in parallel with the width of the sealing strip are located between the upper and the lower delimitation surfaces of the protrusion.

[c14] 14. The component as recited in claim 10, further comprising:

said protrusion exhibits an extension in height-direction which is smaller than the extension in height-direction of the sealing strip.

[c15] 15. The component as recited in claim 10, further comprising:

said upper delimitation surface of the sealing strip, the lower delimitation surface, and portions of a side surface of the sealing strip where the protrusion is arranged, are designed with a continuous direction of the surface perpendiculars of these surfaces, whereas the direction of the surface perpendicular of a side surface of the protrusion, facing away from the sealing strip, changes direction so that the scalar product between the surface perpendicular of this outer side surface and a vector along the longitudinal direction of the sealing strip in this portion shifts sign on both sides of the recess in the longitudinal direction of the sealing strip.

[c16] 16. The component as recited in claim 10, further comprising:

said protrusion exhibits an outer side surface facing away from the sealing strip and an inner side surface facing towards the sealing strip, that the inner side surface is curved and exhibits a maximum radius of curvature R_i and that the outer side surface is curved and exhibits a maximum radius of curvature R_y , wherein the maximum radius of curvature of the outer side surface is larger than the maximum radius of curvature of the inner side surface.

[c17] 17. The component as recited in claim 10, further comprising:

said sealing strip is designed with a sufficient number of protrusions in order to enable self-supporting installation in the groove.

[c18] 18. The component as recited in claim 10, further comprising:

said groove and the sealing strip are designed in an endless way.

[c19] 19. The component as recited in claim 10, further comprising:

said sealing strip and the groove are designed with a

longitudinal direction varying in three dimensions.